

Atty Dkt. No.: B10T-008
USPN: 09/834,747

AMENDMENTS

IN THE CLAIMS:

1. (Currently Amended) A method of administering a synthetic plasma-like solution that does not comprise a conventional biological buffer to a subject in need thereof, said method comprising:

(a) first reducing the level of CO₂ in said subject by at least about 5 mm Hg in an amount sufficient to reduce the risk of acidosis/acidemia; and

(b) then administering said plasma-like solution to said subject, wherein said plasma-like solution does not include a conventional biological buffer.

2. (Original) The method according to Claim 1, wherein said method comprises reducing at least one of the blood level and brain level CO₂ of said subject.

3. (Original) The method according to Claim 1, wherein said subject has at least a sub-physiologic blood flow.

4. (Original) The method according to Claim 1, wherein said subject is in circulatory arrest.

5. (Original) The method according to Claim 1, wherein said subject suffers from hypovolemia.

6. (Original) The method according to Claim 1, wherein said subject suffers from hypoxemia.

7. (Original) The method according to Claim 1, wherein said subject suffers from low blood pressure.

8. (Original) The method according to Claim 1, wherein said subject is undergoing surgery.

9. (Original) The method according to Claim 8, wherein said surgery is low temperature surgery.

10. (Original) The method according to Claim 8, wherein said surgery is stopped heart surgery.

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11. (Original) The method according to Claim 8, where said surgery includes replacing at least a portion of the blood of said subject with said synthetic plasma like solution.
12. (Original) The method according to Claim 1, wherein said CO₂ level is reduced using a mechanical means.
13. (Original) The method according to Claim 1, wherein said CO₂ level is reduced using a pharmacological means.
14. (Previously Presented) The method according to Claim 1, wherein said synthetic plasma like solution comprises:
 - electrolytes;
 - a dynamic buffering system; and
 - at least one oncotic agent.
15. (Original) The method according to Claim 14, wherein said dynamic buffering system comprises bicarbonate.
16. (Original) The method according to Claim 14, wherein said electrolytes of said plasma-like solution comprise sodium, potassium, calcium, chloride ion and magnesium.
17. (Original) The method according to Claim 14, wherein said solution further comprises a simple sugar.
18. (Previously Presented) The method according to Claim 1, wherein said synthetic plasma like solution comprises:
 - sodium, potassium, calcium, chloride ion and magnesium electrolytes;
 - bicarbonate; and
 - at least one starch oncotic agent; and
 - a simple sugar.

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Claims 19-25) (Cancelled)